HARSHIT SOHANEY

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EXPERIENCE

Application Developer Co-op | Softchoice Corp.

narshitsohaney.github.io/Personal-Website/

May 2022 - August 2022

- Improved the frontend and backend for Single Page Applications (SPA) on the company portal using .NET Core to help users navigate items efficiently
- Optimized API logging tables with Object Relational Mapping (ORM) using LINQ to SQL queries to improve access time from 30 seconds to 2 seconds
- Implemented a planning interface by creating APIs to assist in determining development time and creating tasks

Project Lead | Google Solution Challenge

- Applied SCRUM management techniques to coordinate a team of 4 in prototyping a web-app hosting the lost & found system of Toronto
- Designed a real time NoSQL database using Firestore to keep store all reports received and tracked
- Integrated and constructed multiple parts of the application using **JavaScript** to bring together all components created by the team

PROJECT HIGHLIGHTS

GIS Mapping System | University of Toronto ECE297

- Developed a mapping system using the OpenStreetMap database with C++. Iterated to improve movement speed by 98% to make the app user friendly
- Applied algorithms such as Breadth First Search, Dijkstra, and A* to optimize
 pathfinding and included various features to accompany the algorithms (directions, subways, search bar)
- Employed heuristic algorithms such as 2-opt and Simulated Annealing with techniques like multi-threading to find an optimum solution to the Travelling Salesman Problem

Fake News Detection AI | Coursera

- Trained a **LSTM** network using Natural Language Processing (NLP) tools such as **tensorflow**, **nltk**, **pandas**, **keras**, that can detect false news on social media
- Gained an understanding of ML concepts such as NLP, Feature Engineering and Recurrent Neural Networks on a dataset of over 40,000 articles

Personal Website | Independent Project

August 2022 - Present

- Designed a website using HTML/CSS, Javascript and Bootstrap with an interactive user interface inspired by the Spotify Desktop UI
- Implementing features such as a music player and an AI recommendation system using the Spotify API
- Self learning software design principles such as **Repository** and **Decorator** design patterns to improve workflow of the project

ACHIEVEMENTS

- Second Place Prize winner against 20 teams at ENACTUS UofT Innovation Pitch Competition for a social venture
- School Medal for scoring the highest score on the University of Waterloo Euclid Mathematics Exam within the school

EDUCATION

B.A.Sc. in Computer Engineering

University of Toronto

Minor in Artificial Intelligence Dean's List recipient - Winter 2020 -2021, Fall 2021

Courses

Data Structures & Algorithms, Operating Systems, Intro to Deep Learning, Probability & Statistics, Linear Algebra

Clubs & Positions

ECE Ambassador, UofTHacks - Executive, Digital Society - Events Director, Learn AI - Curriculum Content Lead, ECE Club - Events Director, UofT Aerospace Design Team - Firmware & Optics, Performing Musician

TECHNICAL SKILLS

Programming



Machine Learning

Engineering Design

PyTorch	Numpy	TensorFlow
NLTK	Matplotlib	Pandas

Software and Frameworks

Software Communication

MySQL OOP	
.NET Development	
MVC Architecture LINQ	
GCP STM32CUBE	